

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081818\

Data File : VW004733.D

Acq On : 16 Aug 2018 18:02

Operator : SY/AP

Sample : VSTDCCC025EC

Misc : 5.00G/10ML/MSVOA W/SOIL

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 16 18:27:12 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M

Quant Title : VOC Analysis

QLast Update : Thu Aug 16 02:39:24 2018

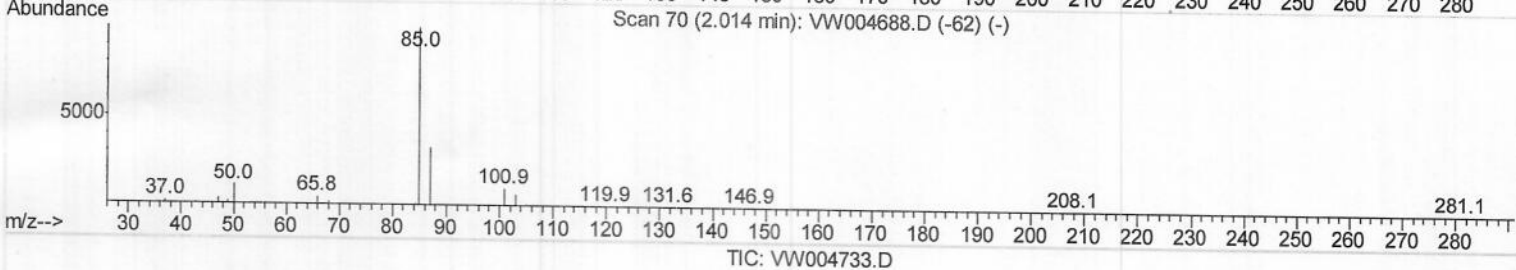
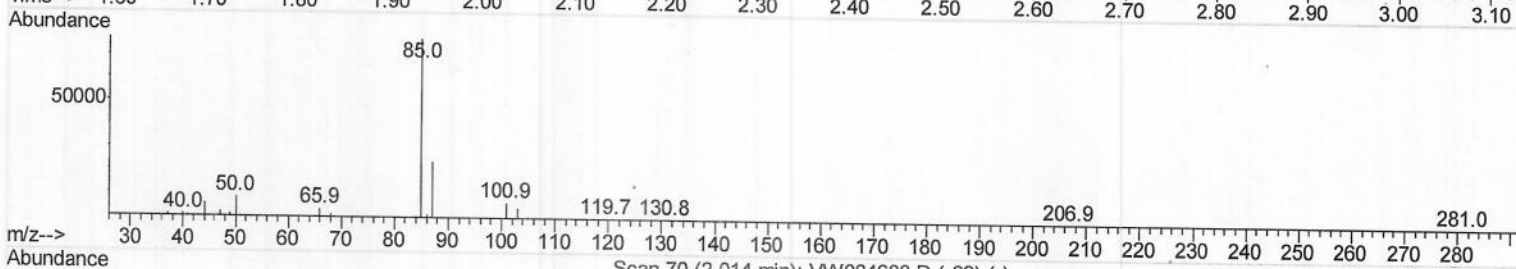
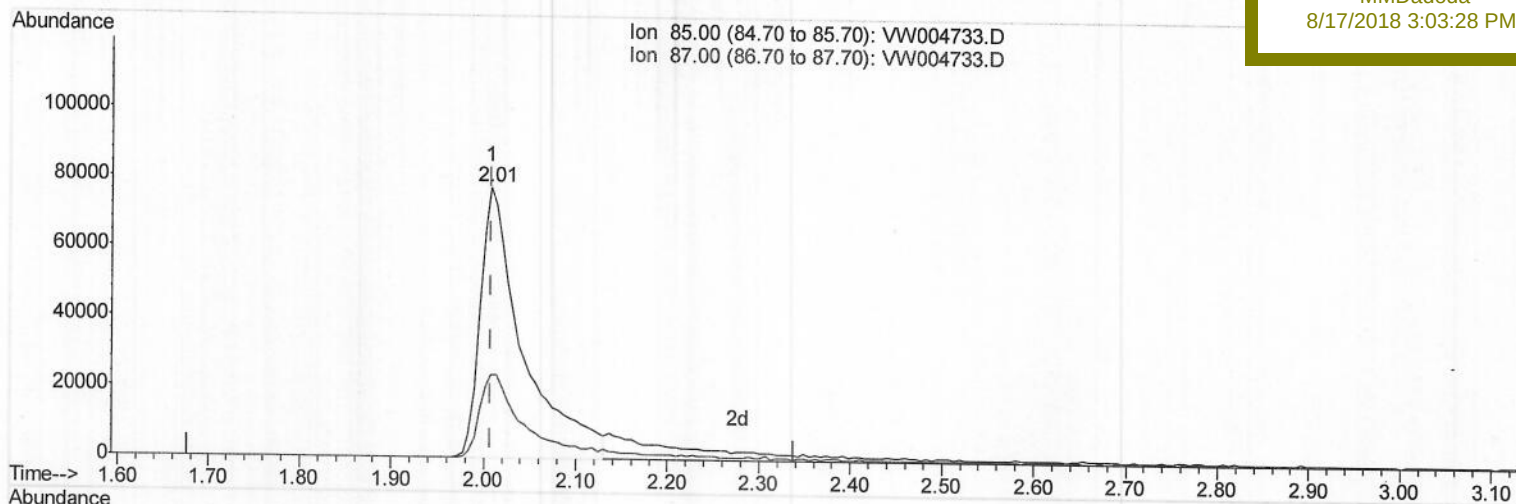
Response via : Initial Calibration

Instrument :

MSVOA\_W

LabSampleId :

VSTD02599

Manual Integrations  
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8/17/2018 3:03:28 PM

(2) Dichlorodifluoromethane (T)

2.008min (-0.000) 22.82ug/L

response 247875

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 85.00 | 100   | 100   |
| 87.00 | 28.50 | 29.54 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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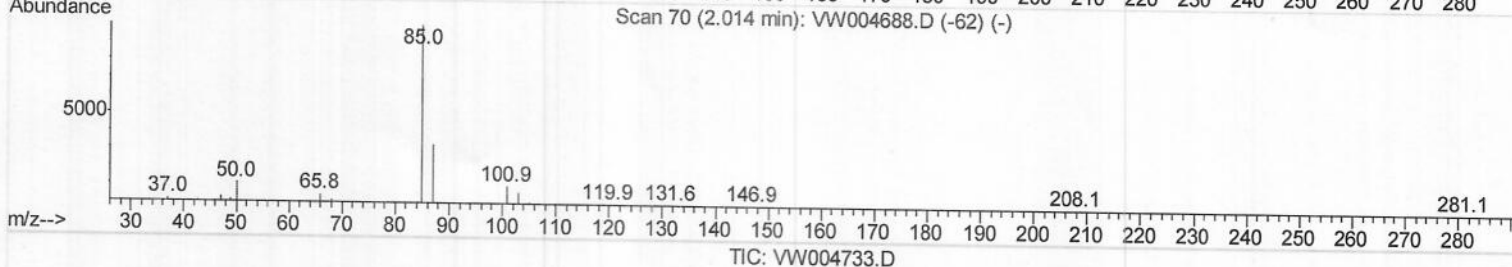
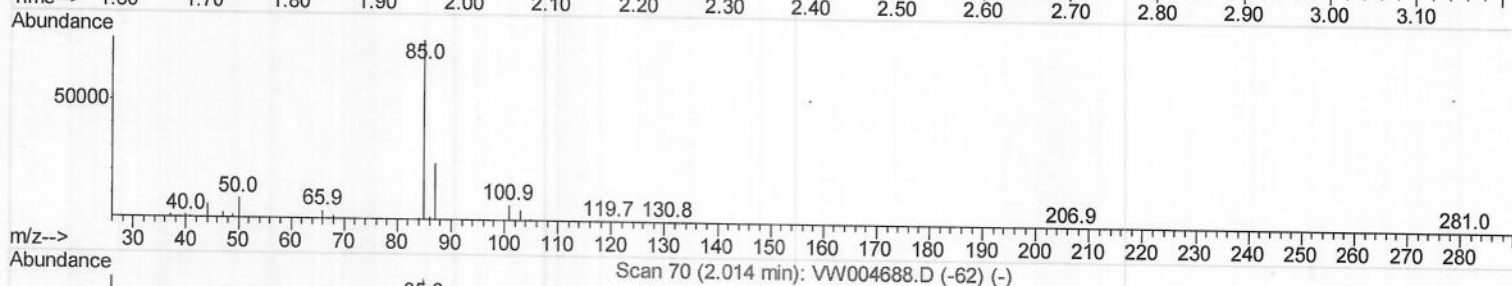
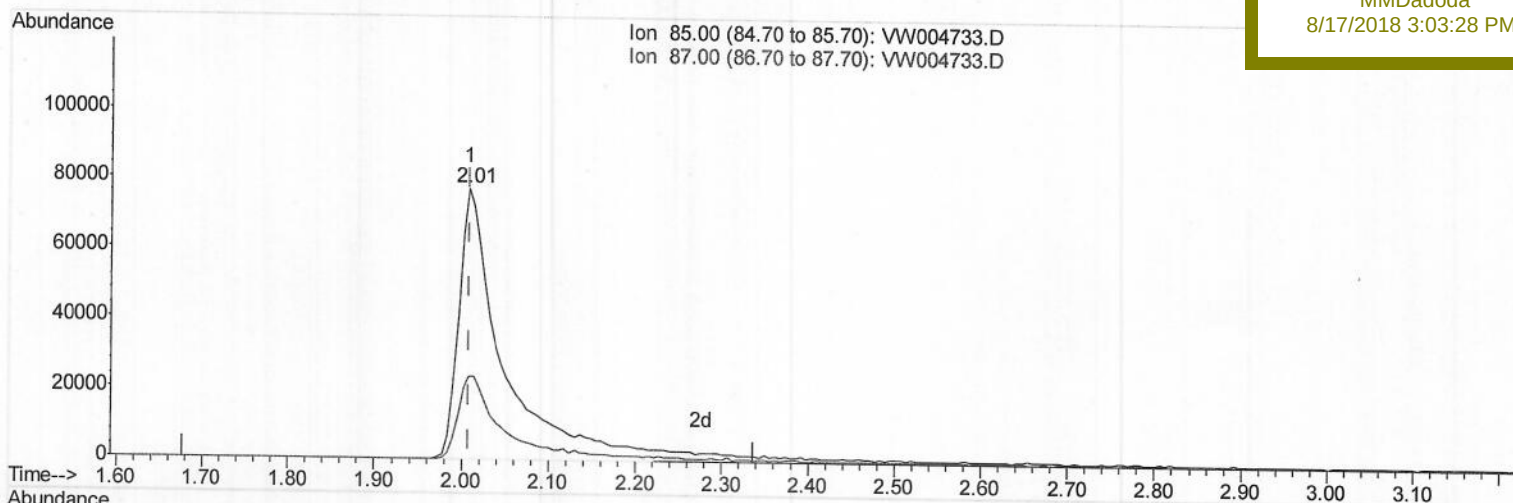
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Manual Integrations  
APPROVEDMMDadoda  
8/17/2018 3:03:28 PM

(2) Dichlorodifluoromethane (T)

2.008min (-0.000) 25.19ug/L m

&gt;08/22/18 sy

response 273595

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 85.00 | 100   | 100   |
| 87.00 | 28.50 | 26.77 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |



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Instrument :  
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 LabSampleId :  
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Quant Time: Aug 16 18:50:40 2018  
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Manual Integrations  
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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 907901   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 888254   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 464834   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |                |     |            |         |      |      |
|--------------------------------|----------------|-----|------------|---------|------|------|
| 4) Vinyl Chloride-d3           | 2.36           | 65  | 300916     | 20.85   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 150 |     | Recovery = | 83.40%  |      |      |
| 7) Chloroethane-d5             | 2.89           | 69  | 249841     | 22.39   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 150 |     | Recovery = | 89.56%  |      |      |
| 10) 1,1-Dichloroethene-d2      | 4.01           | 63  | 603363     | 22.86   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 45 - 110 |     | Recovery = | 91.44%  |      |      |
| 20) 2-Butanone-d5              | 7.09           | 46  | 182342     | 46.70   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 20 - 135 |     | Recovery = | 93.40%  |      |      |
| 24) Chloroform-d               | 7.65           | 84  | 596013     | 24.50   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 40 - 150 |     | Recovery = | 98.00%  |      |      |
| 26) 1,2-Dichloroethane-d4      | 8.31           | 65  | 315569     | 24.48   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 70 - 130 |     | Recovery = | 97.92%  |      |      |
| 29) Benzene-d6                 | 8.27           | 84  | 1184918    | 23.79   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 20 - 135 |     | Recovery = | 95.16%  |      |      |
| 33) 1,2-Dichloropropane-d6     | 9.27           | 67  | 368005     | 23.78   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 70 - 120 |     | Recovery = | 95.12%  |      |      |
| 37) Toluene-d8                 | 10.33          | 98  | 1075159    | 24.05   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 130 |     | Recovery = | 96.20%  |      |      |
| 38) trans-1,3-Dichloropropene- | 10.58          | 79  | 150882     | 24.02   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 30 - 135 |     | Recovery = | 96.08%  |      |      |
| 39) 2-Hexanone-d5              | 10.93          | 63  | 155627     | 50.33   | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 20 - 135 |     | Recovery = | 100.66% |      |      |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69          | 84  | 362182     | 24.95   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 45 - 120 |     | Recovery = | 99.80%  |      |      |
| 61) 1,2-Dichlorobenzene-d4     | 13.86          | 152 | 420988     | 23.87   | ug/L | 0.00 |
| Spiked Amount 25.000           | Range 75 - 120 |     | Recovery = | 95.48%  |      |      |

## Target Compounds

|                                |      |     |         |        |      |             |
|--------------------------------|------|-----|---------|--------|------|-------------|
| 2) Dichlorodifluoromethane     | 2.01 | 85  | 273595m | 25.187 | ug/L | Ovalue      |
| 3) Chloromethane               | 2.21 | 50  | 276102  | 21.430 | ug/L | 08/22/18 84 |
| 5) Vinyl chloride              | 2.37 | 62  | 461265  | 24.667 | ug/L | 99          |
| 6) Bromomethane                | 2.78 | 94  | 250496  | 23.373 | ug/L | 98          |
| 8) Chloroethane                | 2.93 | 64  | 253606  | 24.178 | ug/L | 100         |
| 9) Trichlorofluoromethane      | 3.26 | 101 | 203686  | 21.619 | ug/L | 95          |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 355966  | 25.707 | ug/L | 99          |
| 12) 1,1-Dichloroethene         | 4.03 | 96  | 341596  | 25.128 | ug/L | 98          |
| 13) Acetone                    | 4.14 | 43  | 177487  | 49.538 | ug/L | 99          |
| 14) Carbon disulfide           | 4.37 | 76  | 1136667 | 23.982 | ug/L | 99          |
| 15) Methyl Acetate             | 4.67 | 43  | 178771  | 23.088 | ug/L | 99          |
| 16) Methylene chloride         | 4.91 | 84  | 389533  | 21.477 | ug/L | 100         |
| 17) Methyl tert-butyl Ether    | 5.43 | 73  | 440932  | 24.835 | ug/L | 97          |
| 18) trans-1,2-Dichloroethene   | 5.42 | 96  | 347912  | 24.923 | ug/L | 99          |
| 19) 1,1-Dichloroethane         | 6.21 | 63  | 628978  | 25.467 | ug/L | 99          |
| 21) 2-Butanone                 | 7.18 | 43  | 236390  | 47.174 | ug/L | 98          |
| 22) cis-1,2-Dichloroethene     | 7.17 | 96  | 374757  | 25.447 | ug/L | 99          |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 7.51  | 128  | 172770   | 25.150 | ug/L  | 99       |
| 25) Chloroform                 | 7.68  | 83   | 630155   | 25.640 | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 8.40  | 62   | 398553   | 25.083 | ug/L  | 99       |
| 30) Cyclohexane                | 7.96  | 56   | 604768   | 26.052 | ug/L  | 99       |
| 31) 1,1,1-Trichloroethane      | 7.87  | 97   | 497836   | 25.052 | ug/L  | 100      |
| 32) Carbon tetrachloride       | 8.07  | 117  | 470701   | 24.896 | ug/L  | 99       |
| 34) Benzene                    | 8.32  | 78   | 1444411  | 25.546 | ug/L  | 100      |
| 35) Trichloroethene            | 9.09  | 95   | 356781   | 25.075 | ug/L  | 99       |
| 36) Methylcyclohexane          | 9.34  | 83   | 693928   | 26.137 | ug/L  | 100      |
| 40) 1,2-Dichloropropane        | 9.37  | 63   | 370783   | 25.844 | ug/L  | 100      |
| 41) Bromodichloromethane       | 9.65  | 83   | 427302   | 25.491 | ug/L  | 99       |
| 42) cis-1,3-Dichloropropene    | 10.07 | 75   | 513972   | 25.740 | ug/L  | 98       |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43   | 469427   | 49.415 | ug/L  | 100      |
| 44) Toluene                    | 10.39 | 91   | 1524216  | 26.622 | ug/L  | 100      |
| 45) trans-1,3-Dichloropropene  | 10.61 | 75   | 460146   | 26.135 | ug/L  | 99       |
| 46) 1,1,2-Trichloroethane      | 10.79 | 97   | 277439   | 25.585 | ug/L  | 98       |
| 47) Tetrachloroethene          | 10.87 | 164  | 300627   | 25.466 | ug/L  | 99       |
| 49) 2-Hexanone                 | 10.98 | 43   | 362253   | 52.359 | ug/L  | 99       |
| 50) Dibromochloromethane       | 11.13 | 129  | 317152   | 26.002 | ug/L  | 98       |
| 51) 1,2-Dibromoethane          | 11.24 | 107  | 265945   | 25.441 | ug/L  | 98       |
| 52) Chlorobenzene              | 11.66 | 112  | 992201   | 25.955 | ug/L  | 99       |
| 53) Ethylbenzene               | 11.74 | 91   | 1712817  | 26.856 | ug/L  | 99       |
| 54) m,p-Xylene                 | 11.84 | 106  | 657692   | 27.137 | ug/L  | 99       |
| 55) o-xylene                   | 12.17 | 106  | 622658   | 27.182 | ug/L  | 100      |
| 56) Styrene                    | 12.19 | 104  | 1103855  | 28.094 | ug/L  | 98       |
| 57) Isopropylbenzene           | 12.47 | 105  | 1698135  | 27.373 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 373844   | 25.001 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.77 | 75   | 274238   | 24.910 | ug/L  | 99       |
| 62) Bromoform                  | 12.35 | 173  | 195581   | 24.480 | ug/L  | 100      |
| 63) 1,3-Dichlorobenzene        | 13.51 | 146  | 762883   | 25.588 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146  | 808699   | 25.394 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 13.88 | 146  | 749435   | 25.486 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.49 | 75   | 57037    | 23.017 | ug/L  | 94       |
| 67) 1,3,5-Trichlorobenzene     | 14.64 | 180  | 619605   | 25.834 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 15.15 | 180  | 505252   | 26.004 | ug/L  | 100      |
| 69) Naphthalene                | 15.38 | 128  | 1033507  | 25.844 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.57 | 180  | 493729   | 26.623 | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



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